AD-A258 491

2

CUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION Unclassified	1b. RESTRICTIVE MARKINGS
2a. SECURITY CLASSIFICATION AUTHORITY	3. DISTRIBUTION/AVAILABILITY OF REPORT Unlimited
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) DOD POP HMTR/AYD 92-012	5. MONITORING ORGANIZATION REPORT NUMBER(S)
6a. NAME OF PERFORMING ORGANIZATION Packaging Division, AED 6b. OFFICE SYMBOL (If applicable) SMCAR-AEP	7a. NAME OF MONITORING ORGANIZATION
6c. ADDRESS (City, State, and ZIP Code) U.S. Army, ARDEC Picatinny Arsenal, NJ 07806-5000	7b. ADDRESS (City, State, and ZIP Code)
8a. NAME OF FUNDING/SPONSORING ORGANIZATION 8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER
8c. ADDRESS (City, State, and ZIP Code)	10. SOURCE OF FUNDING NUMBERS PROGRAM ELEMENT NO. / PROJECT NO. / TASK NO. / WORK UNIT ACCESSION NO.

DTIC
ELECTE
DEC 14 1992
S E D

11. TITLE (Include Security Classification)
Performance Oriented Packaging Report for M6 Electric Blasting Cap

12. PERSONAL AUTHOR(S)
Sniezek, Frank

13a. TYPE OF REPORT	13b. TIME COVERED	14. DATE OF REPORT (Year, Month, Day)	15. PAGE COUNT
Final	FROM _____ TO _____	92-11-02	

16. SUPPLEMENTARY NOTATION

17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
FIELD	GROUP	SUB-GROUP	Performance Oriented Packaging, POP, M6 Electric Blasting Cap, Mil-B-2427 woodbox

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This POP report is for the M6 Electric Blasting Cap which is packaged 180/ Mil-B-2427 wood box. This report describes the results of testing conducted.

20. DISTRIBUTION/AVAILABILITY OF ABSTRACT	21. ABSTRACT SECURITY CLASSIFICATION
☐ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS	UNCLASSIFIED
22a. NAME OF RESPONSIBLE INDIVIDUAL STEVE RUFFINI	22b. TELEPHONE (Include Area Code) (201) 724-2515
	22c. OFFICE SYMBOL SMCAR-AEP

DD Form 1473, JUN 86 Previous editions are obsolete. SECURITY CLASSIFICATION OF THIS PAGE

I. REPORT NUMBER: DOD POP HMTR/AYD 92-012

II. TITLE: Performance Oriented Packaging Report for Cap, Blasting, Electric: M6

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army
ARDEC, SMCAR-AEP
HQ, U.S. Army Armament, Munitions, and Chemical Command
Picatinny Arsenal, NJ 07806-5000

DATE: 2 Nov 92

Approved for public release; Distribution is unlimited

1. DATA SHEET

CONTAINER
Type: Box
UN Code: 4C1
Nomenclature: Box, Ammunition, Packing: Wood, Nailed
Specification Number: Type II, Class 2, Grade A, Mil-B-2427
Drawing Number: N/A
Material: Wood
Gross Weight: 43
Outside Dimensions: 17 1/4 x 15 7/8 x 11 13/16
Inside Dimensions: 14 1/2 x 14 1/2 x 9 3/4

PRODUCT
Name: Cap, Blasting, Electric: M6
Drawing Number: 8830972
Specification Number: Mil-C-45468
United Nations Number: 0030
Physical State: Solid
Amount per Container: 180

2. BACKGROUND, TESTS, AND RESULTS
Reference the following document:
a. 49CFR, October 1, 1991 Edition

Instead of testing the specific containers used for the M6 Blasting Cap, three wooden boxes built to the same specification but packed with a fiberboard box loaded with sand were tested. The corresponding weight and dimensions of the tested box are as follows:

Gross Weight: 120 pounds
Outside Dimensions: 18 1/4 x 16 7/8 x 12 1/4
Inside Dimensions: 15 3/8 x 15 3/8 x 9 3/4

This falls within the guidelines for analogy IAW Variation III of para. 178.601(g)(3) of Reference a.

A Stacking Test was conducted on one container with a weight of 1200 pounds for 72 hours in lieu of three containers for 24 hours. This weight exceeds the minimum requirement for a 10 foot stack height which is 1176 pounds.

A Loose Cargo Test was conducted on three containers for one hour. The packages were tested at a vibration table frequency such that the bottom of the packages were raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicated no leakage or spillage of the contents from the containers following any of the tests conducted meeting the requirements of the 49CFR.